

OSCILLATOR

Oregon Tualatin Valley Amateur Radio Club (Est. 1978) *December 1999*

PRESIDENT'S MESSAGE

By Betty, N7REX

There has been a lot in the news lately about the end of the decade, century, and millennium. Much has been said about being prepared for whatever the New Year brings. As a club, the New Year will bring a changing of officers. Please give them your full support.

For me this will be the end of an era. For the better part of the last decade either Chuck or I were on the board. As President for the past three years I've seen many changes in the club. Some of them brought us around full circle to things that were done in the early years of OTVARC, while others were new directions. I feel honored to have been elected the first female president of the club. I feel privileged to have worked with so many wonderful people on the board. But mostly I feel thankful for all of the support and care I have received from the members. You have been my strength in this past year of enormous sorrow. Your thoughtfulness and kindness have been an enormous help. I don't know how I would have survived Chuck's illness and death without the comfort and encouragement of so many of you. Thank you.

For those of you who are worried that I will fade away, as some of my predecessors have, not to worry. I will remain involved. I will continue to be involved with Sea*Pac. The planning meetings for Sea*Pac 2000 have already begun. It isn't too late for you to join.

et's work together to make this the best year yet.

I have also agreed to be the head wagon-master for the year 2000. We still need someone to plan an outing for the months of January, August and October. If you have a favorite camping spot, plan a group outing and get your feet wet as wagon-master. See a schedule for confirmed campouts in the newsletter.

The final arrangements for the holiday party have yet to be made, but the club will be hosting dinner. We are still in negotiations with the Elks to determine what that will look like. We may have a light buffet (sandwiches, veggies, etc.), a hot buffet, or pay for members to go through the regular dinner line. Hope to see you there between 6 and 7 for dinner. The short meeting will begin at 7, followed by dancing to the music of the Gibsonian Trio. We will need a couple of volunteers to help Van count ballots. We will have the election results and raffle later in the evening.

If you have pictures of OTVARC activities, past or present, bring them along to share. Make sure they have your name on them or the album says to whom it belongs. If you have memory book pages to share with our new club historian, that could be the beginning of a 'new' club tradition.

See you at the Holiday Celebration.

73,
Betty

OTVARC



W7OTV 146.960(RPTR)/147.540(S)

WWW.OTVARC.ORG

FCC Revises Emission Limits Under Parts 15, 18

The FCC has gone along with recommendations from the ARRL and others to hold the line on conducted emissions below 30 MHz from unlicensed consumer electronic and industrial, scientific and medical devices operating under Parts 15 and 18 of the Commission's rules. The FCC has proposed new emission guidelines that are just slightly more stringent than the current FCC standards.

"We conclude that mandatory conducted emission limits continue to be necessary to control interference to communications services," the FCC said in a Notice of Proposed Rule Making in ET Docket 98-80. The Commission announced plans to "harmonize" its conducted emission standards with international standards developed by the International Electrotechnical Commission, International Special Committee on Radio Interference--known as CISPR.

"We believe that such harmonization will better protect radio services against interference and facilitate a global marketplace to the benefit of manufacturers and consumers," the FCC said.

The CISPR emission limits for consumer equipment are "approximately 5 dB more stringent below 5 MHz and 1 dB more stringent above 5 MHz" than the existing standards, the FCC said. "We believe that these standards address some of the concerns expressed by ARRL" and others in response to last year's FCC Notice of Inquiry on the issue, the Commission commented. The Commission said it was not persuaded by a National Association of Broadcasters' suggestion to impose much tighter standards--22 dB greater than present--to protect AM broadcasting. The FCC said NAB test data on conducted emissions entering the power cord of an AM receiver tuned to the same frequency were based on "worst-case assumptions."

The FCC said the standards "do not attempt to control interference between the user's own devices" such as a computer and an AM radio in close proximity and connected to the same outlet. Interfering devices include such common household appliances as computers, TV sets, and microwave ovens. Conducted emissions result from RF voltages imposed on the a.c. power line, which can, in turn, act as an antenna.

(See Part 15, 18 — page 4)

There are 675,739 Amateur Radio Operators licensed in the United States according to figures developed by W5YI. These figures include expired licenses still within the two year grace period.

Universal Licensing Experiences

By Van, KE7BB

When registering with the FCC under the new Universal Licensing System, do not put spaces in any numbers, e.g., Social Security Number. Keep it all one continuous string. I had trouble registering until I discovered that this was necessary when entering personal data.

Sharon Kennedy, KD7CWP, Hillsboro Emergency Manager, found that the hardest part is entering your telephone number. Use area code, and number, with absolutely no spaces, no punctuation of any kind.

Janet Bell, WB7FJC, recently went through the new ritual and successfully got it done. She wrote a victorious email saying, "So now I am registered!"

OTVARC

Majority Of Hams Not ULS-Ready

Most Amateur Radio licensees have yet to register with the FCC's Universal Licensing System. The ULS Task Force reports that, as of mid-November, 682,212 amateurs still have not registered. This figure includes individuals whose licenses have lapsed but remain in the two-year grace period. The FCC recently said approximately 3% of US licensees had registered with the ULS.

The FCC deployed the ULS for the Amateur Service on August 16, 1999. Amateurs must be registered in the ULS in order to file applications With the FCC--including renewals, modifications, and vanity call sign requests.

Meanwhile, the latest "good news/bad news" scenario from the ULS could Go something like this: "Dear Amateur: The good news is that we have granted your requested Group C vanity call sign which you sought 10 weeks ago when you were a General class licensee."

(See Hams Not Ready, page 5)

BORSCH ELECTRONICS

Communications Servicing

9935 S.W. Johnson St.
Tigard, OR 97223

Joe Borsch W7PNS

(503) 684-5201

Year 2000 Traveler's Dates Set

By Betty, N7REX

The first camping event of 2000 will be held the weekend of January 14th through 16th. The destination and wagon master is yet to be determined.

In the new year, Betty, N7REX will pick up the Traveler's coordination as "head wagon master." Wagon masters are still needed to plan outings for January, August and October. If you have a favorite camping spot, plan a group outing and get your feet wet as wagon master. Experienced hands will give you guidance and encouragement.

Club Elections December 8th

By Everett, W6ABM

Whether *you* are running for office or supporting another club member who *is* on the ballot, the election of officers is one of the more essential matters for every member. The direction and purposes of our club are at stake every time we elect leadership.

The Oregon Tualatin Valley Amateur Radio Club is led by volunteers who take our purposes seriously. They give a lot of energy and talent toward making our club the fine organization it is today. Non-board members contribute to the life of the club by our participation in

TRAVELER'S 2000 Schedule

Month	Date	Location	Wagon	Phone
January	14 -16	TBA		
February	18 - 20	Mulkey's RV Park, McMinnville, OR	Bob & Jo Orr	503-472-2716
March	17 - 19	Cape Kawanda RV Park, Cape Kawanda, OR	Geno & Virginia Buell	503-614-0563
April	14 -16	Netarts, OR	Al & Mary Berg	503-816-7098
May	19 - 21	Sunnyside Park at Foster Lake	Tom & Barb Bailey	503-538-2266
June	25 - 27	FIELD DAY @ Willamette Mission State Park	Darwin & Verna May Durr	503-646-5910
July	14 - 16	Skamokawa County Park, Skamokawa, WA	Roger & Marvel Noyes	503-292-3261
August	18 - 20	TBA		
September	15 - 17	Elk Meadows RV Park, Trout Lake, WA	Al & Mary Berg	503-816-7098
October	20 - 22	TBA		
November	17 -19	Wandering Spirit RV Park, Grand Rounde	Geno & Virginia Buell	503-614-0563
December	None	Happy Holidays		

Jamboree On The Air

By Bob, WA7WJA

Jamboree On The Air from Bull Mountain with WA7WJA was a success this year with rare DX worked! Fiji was worked by young Scouts, and a couple of elated Ham Scouts. WA7WJA/7 worked 3D2RR, Rich, on 10 meters Sunday afternoon, much to the amazement of all seated in the trailer. Located on Vanu Luavu, the biggest island in Fiji group, conditions were excellent, proving the worth of 10 meters for great DX with limited power. The path was good, but with the usual QSB for that path.

Total QSOs were 13, with best DX above. We also contacted JA2KSI in Nagoya. Most interesting contact was with the Collins Radio Corporation sponsored Venture Crew (New name for Explorer Scouts) in Cedar Rapids Iowa. KC0CRP is the call and the adult leader was very happy to be on the air from their encampment, a central tent.

(JOTA, from previous Column)

They had a whole program around the radios, from Fox Hunts, building kits, and operating the radios. Really is a vibrant operation, by the sound of it.

We had 3-4 scouts at any one time, so there was lots of time to listen around and swing the antenna. Unlike a contest, this was casual and easy-going. Very relaxing for all concerned, but also exciting for the Scouts.

Thanks to the Club for the use of the trailer, and to Will Sheffield and his crew who set up and took down the station as well as brought the trailer to Bull Mountain.

On to Next Year! We should start the planning process for this as well as a Scout/OTVARC field day! Something about throwing ropes and wires into trees and big antennae that gets to the Scouts.

(Part 15, 18, from page 2)

In general, the FCC's current conducted emissions limit is 250 uV. Equipment manufacturers had argued to relax existing limits to keep down production costs, while the ARRL and others representing spectrum users had asserted that the existing limits were not tight enough.

In response to the earlier NOI, the League had commented that the proliferation of Part 15 and 18 devices over the past decade had resulted in "a marked increase in RF noise from conducted emissions generally." The League concluded that because most interference from Part 15 and 18 devices to licensed HF services results from conducted emissions, "it is especially important that the Commission retain what minimal protection exists from the present regulations."

The FCC said it agrees that that standards on the amount of RF energy conducted onto the a.c. power lines "are required to control potential interference to users of the radio spectrum below 30 MHz." It also invited comments on expanding the frequency ranges over which the conducted emission limits from the current 450 to 30 MHz to the 9 kHz to 30 MHz spelled out in the CISPR standards. "In particular, we request comment on other radio operations below 450 kHz that may experience, or have experienced, problems due to excessive man-made RF noise levels," the FCC said. The ARRL has proposed that the FCC allocate new LF amateur bands at 136 kHz and at 160 to 190 kHz.

The new CISPR limits would be applied to all Part 15 devices currently subject to line conducted emission limits—including unintentional and intentional radiators subject to Sections 15.107 and 15.207 of the rules. Regarding Part 18 devices, the FCC proposed establishing general conducted emission limits for consumer industrial, scientific, and medical equipment "consistent with CISPR Publication 11 limits." The FCC proposed no changes in the emissions limits for carrier current communication systems.

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"No Code" Classes Completed

by editor, Everett W6ABM

"No Code" Amateur Radio license classes were held under the sponsorship of OTVARC on November 4, 11, and 18. Sessions were held at Tualatin Valley Fire and Rescue Board Room in Aloha. Sessions were well attended with more than twenty registered.

At press time, we can report that at least one member of the group upgraded from Novice to Tech Plus as a result of the sessions. Kevin Curry, KA7KYQ, first licensed as a Novice before age 10 more than two decades ago, passed his exam on November 28th. Kevin is a resident of Tualatin.

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RESTRUCTURING DETAILS POSSIBLE BY YEAR'S END

From ARRL Letter

Knowledgeable sources in Washington say the amateur license restructuring issue has moved to the front burner at the FCC, and a Report and Order could be released before the end of 1999.

The Amateur Radio community has been awaiting license restructuring—known officially as the 1998 Biennial Regulatory Review of Part 97 (WT Docket 98-143)—for nearly one year now. While no one has mentioned a hard-and-fast date to wrap up the long-awaited proceeding, reports from several sources suggest that the R&O draft is in its final stages and could be complete within a month or so.

During a recent visit to top FCC officials in Washington, League officials pressed again for early action on the license restructuring rulemaking. They were assured that the issue was not stalled and that the Wireless Telecommunications Bureau was "working very actively" to move restructuring along.

Whatever its final form—and no one has hinted at that—license restructuring poses significant implications for Amateur Radio and its future direction and growth. On August 10, 1998, the FCC proposed to phase out the Novice and Technician Plus licenses, leaving just four amateur license classes in place—Technician, General, Advanced, and Extra. The Commission also asked the amateur community to express its opinions on Morse code requirements for licensing and testing, but offered no specific recommendations.

At its July 1998 meeting, the ARRL Board of Directors—attempting to get the jump on restructuring—issued its own plan to restyle Amateur Radio. Among other details, the ARRL plan also calls for four license classes and for "refarming" Novice/Tech Plus subbands to provide additional spectrum for higher-class operators. Under the League plan, the Technician license remains unchanged, and the General becomes the entry-level ticket to HF operation. The ARRL proposed Morse code requirements of 5 WPM for General and 12 WPM for Advanced and Extra class.

The restructuring debate generated more than 2200 comments to the FCC, many of them from individual amateurs. Once the FCC approves the Report & Order, a Public Notice will be issued, and the actual Report & Order will be released, probably within a few days.

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OTVARC LUNCH BUNCH

By Harold, WB0BRU

The December lunch get-together date and location will be announced at the club meeting on Wednesday, December 8th. See you then!

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Hams not ready – from page 2

The bad news is that when we granted your long-awaited vanity call, we also undid the Advanced and Extra class upgrades you accomplished while your vanity was pending. So, congratulations! You're a General once again."

The ULS Task Force says it recently discovered that the bug occurs when several applications are pending (e.g., a vanity application and an upgrade application). The FCC is attempting to straighten out the unintended downgrades and says it will have the operator class of affected licensees corrected within a week.

FCC personnel are currently testing the processing for club, military recreation, and RACES applications and hopes to act on pending applications before the end of the month. Up until now, those applications have been filed on paper and still must be manually keystroked into the ULS prior to processing.

The ULS Task Force also wants amateur applicants to know that if they apply too early for license renewal, their applications will be dismissed. A license renewal must be filed no sooner than within 90 days of expiration, even if coupled with a license modification. This is only an issue for those filing paper applications; the electronic filing system will not let applicants file prematurely.

To register for the ULS, visit <http://www/fcc.gov/wtb/uls> and click on "TIN/Call Sign Registration". Paper registration also is possible. For more information, call toll-free 888-CALL FCC (225-5322).

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ARISS Flight Again Delayed

From, NASA

The schedule once again has been reset for space shuttle mission STS-101, which will carry the initial Amateur Radio on the International Space Station gear aloft. NASA now says the shuttle Atlantis will launch no earlier than March 16, 2000. The nearly 11-day mission will carry the initial Amateur Radio station equipment to the ISS for deployment aboard the Russian-built service module. Wiring inspections and repairs on the Atlantis orbiter, along with the unplanned replacement of the ammonia boiler, are responsible for the most recent delay. Observers also are keeping an eye on the situation in Kazakhstan, where a Russian Proton rocket recently was lost following launch from the Baikonur Cosmodrome.

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HAMS WILL GET TO HELP NASA WITH SPACE EXPERIMENT

From, NASA Space Science News

If all goes well, Amateur Radio operators will get a chance to contribute to a NASA satellite project by recording the data. The Plasma Experiment Satellite Test--or PEST--at NASA's Marshall Space Flight Center will ride on the Joint Air Force-Weber State University Satellite, or JAWSAT, according to project scientist Nobie Stone. The Launch is set for no earlier than December 2. The primary payload will be the US Air Force Academy's Falconsat. JAWSAT will serve as a bus for several deployable payloads and the attached PEST experiment.

The telemetry stream from JAWSAT--which includes data from PEST--will be transmitted on amateur frequencies. "Hams will be able to obtain data that characterizes certain aspects of the ionosphere above the D, E, and F layers where most of their signals are reflected," said PEST Project Manager Fred Berry, WA4IWY. "We're going to publish the data format in terms that everyone can understand."

Data from PEST will be using either a G3RUH modem or a GMSK modem. Data rates should be as high as 38.4 kb/s. Data will be transmitted on 437.175 MHz or 2403.2 MHz. NASA will publish instructions for sending in data so the PEST team can use it. "It's an experiment," Berry said. "We're hoping that high school and college kids will get involved and learn something about the ionosphere and radio propagation."

Deployable payloads aboard JAWSAT are the Orbiting Picosat Automatic Launcher--or OPAL-- and ASUSAT provided by Arizona State University. ASUSAT itself will contain amateur packet hardware and a 2-meter/70-cm FM Voice repeater.

OPAL will release three tiny picosats--one of them, StenSat--will have a crossband repeater aboard that will operate much like the Popular AO-27 satellite. After JAWSAT reaches its desired polar orbit at 700 km (420 mi) altitude, it will be about two weeks before PEST is first powered on. PEST will acquire data for at least a two-month period.

For more information, visit:
http://science.nasa.gov/newhome/headlines/ast04nov99_1.htm.

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Midland Recalls Weather Radios

Midland Consumer Radio Inc reportedly has recalled 9000 incorrectly programmed weather radios. The Consumer Product Safety Commission says the error can cause users to miss important information about approaching severe weather, putting lives and property at risk. Only model 74-200 radios that have serial numbers beginning with 904 or 905 are being recalled. For more information, call Midland Consumer Radio, 877-302-1904.

OTVARC

Party with Us on New Year's Eve!

by Sharon, KD7CWP

Emergency Operations Centers around Washington County will be the happenin' place to be on New Year's Eve! (Actually, we hope to have a worldwide non-event, but we'll be prepared for the worst.) We'll be activating amateur radio operators in several locations around the county - you can even state your preference, and we'll try to accommodate you. We can also accommodate partial shifts, which will give more operators a chance to volunteer.

Choices are: Washington County, Washington County Sheriff's Office, City of Beaverton, City of Hillsboro, Tuality Hospital, St Vincent's Hospital, Bergen Brunswig Medical (pharmaceutical supplier to all hospitals in the area), City of Forest Grove, City of Gaston, and Tualatin Valley Fire & Rescue.

We have also been requested to have operators on stand-by for City of Tualatin and Meridian Park Hospital. If you prefer to stay home with your family and monitor the emergency frequency from there, we need lots of those folks, too. We may put out a call for your neighborhood's status or even dispatch you to someone's doorstep to deliver a message in person.

As always, the emergency frequency to monitor for Washington County is 146.90 MHz and for District 1 is 143.72 MHz. If you'd like to volunteer to help in any capacity, please call me, Sharon Kennedy, KD7CWP, City of Hillsboro Emergency Manager, at 632-0370 (work) or e-mail me at sharonk@ci.hillsboro.or.us. Another person to contact is Ernie Johnson, KC7PMZ, Washington County Assistant Emergency Coordinator, at 647-0860 or kc7pmz@arrl.net. Another option is to check into the Washington County Emergency Net on Tuesday evenings at 7:00 p.m. and offer your services.

OTVARC

National Traffic System Celebrates Golden Anniversary

From ARRL Board of Directors

WHEREAS, the National Traffic System is celebrating its golden fiftieth anniversary this year; and

WHEREAS, traffic handlers in the National Traffic System have relayed messages across the continent for the benefit of the public and as training for emergency communication operations; and

WHEREAS, the National Traffic System has served as one of the greatest social outlets for its devotees in the history of Amateur Radio, with lifelong friendships having been forged through its nets; and

WHEREAS, the National Traffic System has enjoyed a rich and colorful history, replete with thousands of operators contributing hundreds of thousands of hours to their beloved avocation of traffic handling;

See NTS, next column

Big Shake '99 Post-Ex Report

by Sharon, KD7CWP

Our statewide amateur radio simulated emergency test, Big Shake '99, was declared a huge success! Conducted from 9 a.m. to 1 p.m. on Saturday, November 13th, we had several Washington County jurisdictions and agencies involved.

The Washington County Emergency Operations Center acted as net control for 146.90 MHz. We had participants on 2-meter from City of Tualatin, City of Hillsboro, St Vincent's Hospital, and Bergen Brunswig Medical (the pharmaceutical supplier for hospitals in the area). We also had call-ins from 2-meter mobile amateur radio operators from around county, and several called in test damage assessment reports, to which we simulated responses.

We operated a statewide HF net out of Salem, which we haven't accomplished in a long time. Washington County had two HF stations on the air, one at Washington County EOC and one at a home in Hillsboro. HF propagation wasn't very kind to us that day, but we got into the State Emergency Coordination Center in Salem via relays from Oregon City or Eugene. We couldn't hear Salem, but could hear quite a few other counties checking in with them.

We operated packet on two bands, 2-meter and 70-cm. We are currently testing a design for a county-wide 70-cm band packet network. The County and several other jurisdictions and agencies will be purchasing the necessary radios in the next fiscal year.

We'll get a rundown on the exercise from a District 1 perspective (the 7 counties in NW Oregon) on Wednesday, December 1st. If you'd like more detailed information, please ask me, Sharon Kennedy, KD7CWP, 503-642-0370 or Ernie Johnson, KC7PMZ 503-647-0860.

OTVARC

Board Meeting December 15th

by Janet, WB7FJC

The OTVARC Board will meet on the following dates: Weds. Dec. 15 because of holiday schedules. All members are invited to

Attend the meetings. Suggestions and members are always welcome! This is special date due to the Holiday season.

Questions? Call Janet, WB7FJC, 503-642-0369 or email belljn@tvfr.com.

OTVARC

NTS from previous column

NOW, THEREFORE, BE IT RESOLVED, that the ARRL Board of Directors, assembled in formal session, in Rocky Hill, Connecticut, does hereby recognize the historic and benevolent contributions of the National Traffic System and its operators to the ARRL public service program, on the occasion of its fiftieth anniversary.

OTVARC

December Meeting Features Holiday Party

The December 8th meeting of the club will be held at the Beaverton Elks Club, featuring the 1999 Holiday Party, the Gibsonian Trio for your entertainment and dancing, and a meal together to kick things off at 6:00 pm. The club will host the dinner this year.

We are in negotiations with the Elks to determine how our dinner will be handled. We may have a light buffet (sandwiches, veggies, etc.), a hot buffet, or pay for members to go through the regular dinner line. Hope to see you there between 6:00 and 7:00 pm for dinner.

After dinner we'll have a brief club business meeting which includes our balloting for officers. Conversation and dancing to the music of the Gibsonian Trio will fill out the mid-meeting. Our evening will be complete with the announcement of election results and raffle.

Join us at the Beaverton Elks for the final meeting of 1999.

PUBLIC AREA VE TESTING SITES

From Editor, W6ABM

Phantom Amateur Radio Club (PARG)
Second and Fourth Sunday of each month
Contact John, KA0SSF, at 503-626-7399

McMinnville Amateur Radio Club
Monthly on Wednesday evenings
Call Mike Jones, AB7OE, at 503-864-3291

Clark County Amateur Radio Club
Test location is the Salmon Creek American Legion,
Vancouver, WA. Test session begin at 10AM
Date: Dec. 11.
Contact 360-896-8909 (press 3)

Portland Adventist Radio Club
Contact Patsy, W7PAT, at 503-668-4305

Oregon Tualatin Valley Amateur Radio Club (OTVARC)
Call Carl Clawson, WS7L, at 629-5796.
The next test session will be on Saturday, December 4th at
1:00 pm, in the Tualatin Valley Fire & Rescue Building,
20665 SW Blanton, Aloha.

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Hamfests And Conventions

11 Mar 2000

Mike & Key Amateur Radio Club - Puyallup, Washington
Contact: Michael Dinkelman, N7WA
22222 148th Avenue SE
Kent, WA 98042
Phone: 253-631-3756 or 425-867-4797
email: mwdink@eskimo.com

8 Apr 2000

Lilac City Amateur Radio Club
Contact: Warren Kelsey, KJ7BB
1405 South Crestline
Spokane, WA 99203
Phone: 509-534-8443

22 Apr 2000

Eastern Idaho UHF Society
<http://www.srv.net/~wa4vrv/hamfest.htm>
Contact: Jay Greenberg, WA4VRV
2582 Granite Way
Idaho Falls, ID 83402
Phone: 208--524-1388 or 208-526-7033
email: wa4vrv@srv.net

1-4 Jun 2000

Northwestern Division Convention - Seaside, Oregon
Contact: Randy Stimson, KZ7T
9890 SW Inglewood St.
Portland, OR 97225
Phone: 503-297-1175

OTVARC

Oscillator Article Survey

By Everett W6ABM

Would you trace the contents of OSCILLATOR during the past year and identify your favorite article or regular feature? If something else that interests you were to be reported or included in OSCILLATOR issues in the New Year, what would that be? Do you have an area of expertise that you'd like to lend to our newsletter in 2000?

Email the editor, Everett, W6ABM with your replies. His email address is ecurry@teleport.com. Thanks for your participation.

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OTVARC 5TH WEDNESDAY RADIO CONTEST - DECEMBER 29, 1999

- 1) Object: To work as many amateur stations as possible in as many different 5-digit ZIP codes as possible, using 147.54 FM simplex.
- 2) Contest Period: 2000 local through 21 00 local, Wednesday, December 29, 1999.
- 3) Categories:
 - A) Single Operator: One person performs all operating and logging functions.
 - B) Single Operator QRP: Same as (A) with a power limitation of 5 watts.
 - C) Multi-operator: More than one person performing operating and logging functions.
- 4) Exchange: Operating 5-digit ZIP Code and Station Category.
- 5) Scoring:
 - A) QSO points: Count one (1) point for each complete single operator or multi-operator QSO. Count two (2) points for each complete single operator QRP contact.
 - B) Multiplier: The total number of 5-digit ZIP codes worked,
 - C) Total score: Multiply the total number of QSO points by the multiplier.
- 6) Miscellaneous:
 - A) Partial QSOs do not count. Both calls, the full exchange, and acknowledgement must be sent and received.
 - B) While no minimum distance is specified for contacts, equipment should be capable of real communications (ie. able to communicate over at least 1 km.).
 - C) Use of repeaters and telephones to coordinate contacts is not allowed.
 - D) Rovers are not allowed as entries in the contest. Mobile stations can be contacted by stations in the contest. Mobile stations will not have a ZIP code and will not count toward the multiplier count.
 - E) Only one call may be used by any station.
- 7) Reporting:
 - A) Entries must be delivered to the contest organizers at or before the January 12, 2000 OTVARC club meeting. (to: Jim Schaeffer, KB7ADH)
 - B) Entries must be made on log sheets showing time of QSO, Call, Zip Code and Contest Category.
- 8) Awards:
 - A) Certificates will be awarded for the top points winner in each station category.
 - B) Awards will be made at the club meeting February 9, 2000.

Contest Summary Sheet

Call Used _____ Operating ZIP Code _____

Other Operators _____
Category: A - Single Op B - Single Op QRP C - Multi-operator

Scoring:	Category A QSO's _____	x1 = _____
	Category B QSO's _____	x2 = _____
	Category C QSO's _____	x1 = _____
	TOTAL QSO Points _____	
	Times Number of Zip Codes x _____	
	TOTAL CLAIMED SCORE _____	

Signed _____ Date _____
Attach Log Sheets detailing all contacts, including Call, ZIP Code, Category, and Time.

OTVARC Club Contacts

OTVARC Executive Board			
President	Betty Mickley	N7REX	503-642-1284
Vice President	J.D. Fort	K7JDF	503-259-0269
Secretary	Mike McDonald	KC7YSW	503-692-5893
Treasurer	Hanford Van Ness	KE7BB	503-246-7975
Trustee	Jack Smithson	KA7HOJ	503-646-1873
Trustee	Will Sheffield	N7THL	503-642-7314
Trustee	Janet Bell	WB7FJC	503-648-4147
Trustee	Al Berg	W7SIC	503-640-5456
Trustee	Maureen O'Rourke	KA7LAP	503-591-9641
Other Club Contacts			
ARRL Coordinator	Bob Orr	WF7Q	503-472-2716
Bunny Hunting	OPEN		
Contesting	OPEN		
DX News	OPEN		
Equipment Loan	Stan Griffiths	W7NI	503-649-0837
Equipment Valuation	Randy Stimson	KZ7T	503-297-1175
Equipment Trustee	Al Berg	W7SIC	503-640-5456
Emergency Services	J.D. Fort	K7JDF	503-259-0269
Field Day Coordinator	Harold Landers	WA0BRU	503-646-1546
	Jack Smithson	KA7HOJ	503-646-1873
Health & Welfare	Linda Sutton	KC7YTD	503-246-8879
Historian	Al Berg	W7SIC	503-640-5456
Internet Home Page	Mike Boyd	N7DKQ	503-640-6041
Member Badges	Carl Clawson	WS7L	503-629-5796
Newsletter Editor	Ev Curry	W6ABM	503-681-2345
Newsletter Layout	Ev Curry	W6ABM	503-681-2345
Newsletter Distribution	Al Berg	W7SIC	503-640-5456
Nominating Committee	OPEN		
Packet - Club BBS	Rick Braun	KB7OGD	503-645-1490
Project Night	Alan Chinnock	KB7POR	503-636-2237
	OPEN		
Public Relations	J.D. Fort	K7JDF	503-259-0269
Public Service	Randy Stimson	KZ7T	503-297-1175
Repeater	Wes Allen	K7WWG	503-649-3295
RFI & TVI	Dale Mosby	K7FW	503-640-0217
Satellites	OPEN		
Scholarship	Carl Clawson	WS7L	503-629-5796
Sea-Pac	Al Berg	W7SIC	503-640-5456
"	Brad Beach	N7NVC	503-657-1781
"	Jim Schaeffer	KB7ADH	503-245-2518
"	Randy Stimson	KZ7T	503-297-1175
"	Will Sheffield	N7THL	503-642-7314
Station Trustee	Hanford Van Ness	KE7BB	503-246-7975
Social	Harold Landers	WA0BRU	503-646-1546
Technical Specialist	Stan Griffiths	W7NI	503-649-0837
Tower Ordinances	Greg Milnes	W7OZ	503-648-6990
Trailer	Dee Lynch	KA7NPN	503-646-4580
Training(code)	Burt Rooke(PCC)	K17JX	503-241-2891
Training(Novice/Tech)	Jim Mockley	AB7XD	503-629-9354
Training(upgrade)	OPEN		
VE Test Coordinator	Carl Clawson	KS7L	503-629-5796
VHF/UHF	Arnold Jensen	N7YAG	503-543-3713

OTVARC Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a Not-for-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service, through the following five objectives:

1. Education & Training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

Special Service Club: OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency pre-paredness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

Newsletter: The *OTVARC Oscillator* is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views, and recommendations of its contributors are not necessarily those of the club, its officers, advertisers or the editorial staff. Editor's E-mail: ecurry@teleport.com January 2000 OSCILLATOR deadline is Tuesday, December 21st.

Internet Home Page: WWW.OTVARC.ORG

Correspondence: All correspondence may be sent to OTVARC, PO Box 5132, Aloha, OR 97006-0132.

Advertising: Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time, from January through June and July through December. All ads must be paid for in advance. Rates are as follows:

Full page	8" X 10"	\$200 for six months
Half page	8" X 5"	\$120 for six months
Qtr page	4" X 5"	\$72 for six months
Bus.Card	2" X 3"	\$36 for six months

Meetings: We have two meetings per month. The board meeting is on the fourth Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The general meeting is on the second Wednesday of each month at the Beaverton Elks Lodge. 3500 SW 104th Ave. (1 block north of Canyon Road). Meetings start at 7 PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.00.

Membership: OTVARC is open to anyone who is interested in amateur radio. You do not need to be a licensed radio amateur to join. Dues are as follows: Full member, \$10/yr; Associate member (non-licensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see the Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club treasurer for prorated dues.

How to join: Simply mail the Membership application and/or renewal form along with your dues to the address above.

WORLDWIDE DISTRIBUTION



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Manager
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DATES TO REMEMBER
Dec. 8th – Holiday Meeting
Dec. 15th – Board Meeting
Dec. 29th – 5th Wednesday



Address Correction Requested

OTVARC
Oregon Tualatin Valley ARC
PO Box 5132
Aloha, OR 97006-0132

Amateur Radio Operators serve the community. To find out more about becoming a licensed Amateur Radio Operator, see WWW.OTVARC.ORG or write to OTVARC, Post Office Box 5132, Aloha, OR 97006-0123.